

TEXTILE PROBLEMS BEING STUDIED IN LABORATORY HERE

Devise Nomographic Charts for
Simplifying of Textile
Calculations

DESIGN NEW EQUIPMENT

Important Problem at Present
is Industrial Application
of Microscopy

(This is the fourth of a series of feature articles describing the work progressing in the many interesting laboratories and experiment stations in the Institute. Watch for more of these—learn to know Technology.)

The Textile Laboratory of Massachusetts Institute of Technology has for the past twenty years been engaged in research and development projects which are regarded as contributions of considerable importance to the textile industry. New testing methods, now in use throughout the country, have been developed in this laboratory. Charts for making textile calculations, which are finding increasing application in the mills, were originated here. Testing conditions and testing standards recommended by this laboratory have been accepted throughout the textile industry. Improved manufacturing processes, suggested by researches in this laboratory, have been adopted in many mills.

Such are some of the research results which have made the Textile Laboratory of the Institute recognized as an important factor in the development of the textile industry in this country.

The work of the laboratory has progressed in three phases. First there has been the necessity of designing and building much of the testing equipment. Second there has been general routine testing for many manufacturers and along with it a great deal of investigation in industrial processes. And finally has been the research work of a more forward looking type, aiming to make developments in advance of the demand for them. The laboratory is located on the third floor of Building Three in Room 3-329. Professor George B. Haven is in charge of the laboratory

(Continued on Page 4)

Skits Used For 1930 Show Will Receive Prizes

Tech Show Solicits Material
for Open House Night
Presentation

William C. Green Jr., Coach of Tech Show, discussed some possible ideas for next year's presentation at a meeting of skit writers held last Friday afternoon. He stressed the necessity of immediate action in getting together a working outline of the show, in order that the script may be started before the end of the term. Two skits, to be presented on Open House Night, must also be written this week.

Tech Show's contribution to the celebration of Open House will be a half hour's program, consisting of three dances and two skits which will be presented in Walker at some time during the evening. The dances are to be taken from this year's show but it is hoped that two original skits will be written. Ideas for the skits must be turned in before April 8 and Coach Green has agreed to give any needed advice to would-be authors.

At the meeting of the Senior and Junior Boards held last week it was decided that next year's show will be of the revue type but an attempt will be made to coordinate the skits, dances, and specialty acts as much as possible. Cash prizes of five dollars each will be offered this year for each skit accepted, and an additional prize will be given the author of the best skit turned in for the Open House Night exhibition. It is hoped by the management that a number of lively, interesting, contributions may be received.

Elected Manager of the Swimming Team



A. Gardner Dean, '31

DEAN WILL MANAGE VARSITY SWIMMERS

Was Sophomore Manager Last
Year—Has Handled
Freshman Meets

A. Gardner Dean '31, has been elected manager of the swimming team, according to an announcement made Monday evening at a meeting of the Executive Committee of the M. I. T. A. A.

Dean is a resident of Chevy Chase, Maryland, and entered the Institute in Course II after graduating from the Central High School in that city. Since then he has changed his course, and is now studying Aeronautical Engineering. During his attendance at Central High School, Dean was active in the Banjo Club, played with the dance orchestra, was a lieutenant in the cadet corps and a member of the rifle team. He was elected to the Freshman Dance Committee during his first year at the Institute and is a member of Delta Upsilon.

Dean has been active with the swimming team ever since his arrival at the Institute. Last year he was one of the Sophomore managers, and did good work in managing the freshman team. He has also been out for track during the past season.

CHAPERONES CHOSEN FOR DORM FUNCTION

Committee Completes Plans for
Dance Held April 5

Final plans for the dormitory dance of April 5 have been completed and Mrs. Charles R. Gow and Mrs. H. H. W. Keith will be the chaperones. The dance will continue until 2 o'clock which time, according to the "Dorm Rumor," will give everyone ample opportunity to take the girl friend home and be back in time for class.

Despite the fact that there are many other dances on the same night, 50 tickets at the price of \$2.50 have been sold. The committee advises that those who expect to go and have not yet secured their tickets should do so at once, as the dance will be limited to 75 couples.

ROGERS TO BE SCENE OF MILITARY DANCE

Technology's chief military social function, the annual ball, will be held in the Exhibition Hall of Rogers on Friday, April 5. Music for the occasion will be furnished by Tige Jewett's orchestra. Tickets, which are \$2 for a couple or stag, may be secured from R. O. T. C. upperclassmen or at the door the night of the dance.

Chaperones for the affair will be Colonel and Mrs. Harold E. Cloke, Colonel and Mrs. Edward F. Miller, Colonel and Mrs. Robert C. Eddy, Major and Mrs. Richard H. Somers, and Major and Mrs. Sydney S. Winslow.

Paul Litchfield Sole Nominee For Alumni President

Head of Goodyear Tire and
Rubber Company to Lead
Organization

Five Boston men are included in the slate of nominations for officers of the Alumni Association of the Institute, and for Term Members on the Institute's Corporation, its legal governing body. As successors to Alexander Macomber '07, of Macomber and West, Engineers, Boston; Paul W. Litchfield '96, President of the Goodyear Tire and Rubber Company, Akron, Ohio, has been made the sole nominee for President of the Association.

The nine men selected for candidates for Term Members on the Corporation are: Calvin W. Rice '90, National Secretary, American Society of Mechanical Engineers, New York City; William S. Forbes '93, President, Forbes Lithograph Manufacturing Company, Boston; Wallace C. Brackett '95, Charles G. Edwards Company, New York City; George W. Treat '98, President, E. H. Rollins and Sons, Boston; Philip W. Moore '01, Vice-President, Poor and Company, Chicago, Ill.; Louis S. Cates '02, President, Utah Copper Company, Salt Lake City, Utah; Harold V. O. Coes '06, Ford, Bacon and Davis, Inc., New York City; Alexander Macomber '07, Consulting Engineer, Macomber and West, Boston; Maurice R. Scharff '09, Consulting Engineer, Main and Company, Pittsburgh, Penn.

The nominee for Vice-President of the Association is Francis J. Chesterman '05, Pittsburgh; and the two new members of the Executive Committee are Bradley Dewey '09, President of the Dewey and Almy Chemical Company, Cambridge, and Charles E. Locke '96, Associate Professor of Mining Engineering and Ore Dressing at the Institute. Mr. Chesterman succeeds George E. Merryweather '96, of Cleveland, Ohio; and Messrs. Dewey and Locke follow Allan Winter Rowe '01, Chief of Research in the Evans Memorial Hospital, and Frederick Bernard '17, of the Northwestern Life Insurance Company.

Of the nine Corporation nominees, three will be selected by vote of the entire Alumni body, and these three nominees will be transmitted to the Corporation for formal election by that body.

Old Clothes Day To Be Observed During Technology Carnival

Agent Learns Brig and Carleton Allen Are One

Thoroughness has been one of the slogans of the Senior Endowment campaign that is rapidly coming to a close. An example of this was shown recently when one of the men in the endowment office called up Carleton B. Allen '29 to find out why he had neglected to sign up. Imagine his surprise when he learned that Carleton Allen was the same "Brig" Allen whom he had signed up but a few minutes previous.

Technique Redeems Signups This Week

Yearbooks to be Given Out in
Walker After "Rush" on
Open House Day

Technique signups may be redeemed any time this week at a desk in the Main Lobby of the Institute. Here the one-dollar stubs with three dollars may be exchanged for a slip entitling the owner to a copy of the yearbook which will be given out on Open House Day.

Following the annual Technique Rush which falls on the same day as Open House this year the winners of the paddles, will present them to members of the managing board and receive their copies of the yearbook. All the copies this year will be autographed by President Stratton, but only the winners of the first five paddles will receive their copies free. The winners of the remaining paddles will have to present a regular redemption slip.

As usual, students may have their name printed on the cover of their Technique in gold for an extra charge of fifty cents. A few copies of the yearbook will be sold for five dollars to anyone who wants a copy and has not bought a signup slip.

TATTERS AND RAGS WILL BE WORN TO ALL RECITATIONS

Most Delapidated Costume of the
Day to be Given Prize by
Carnival Committee

OVERALLS WIN ONE TICKET

Official Old Clothes Day for all undergraduates of the Institute will be observed on April 12th, the day of the All-Technology Carnival. Old clothes will be the order of the day, and all students and faculty members will be expected to attend classes in their choice bits of ragged relics and overalls according to Henry O. Pattison '30, Publicity Manager of the Carnival. The faculty has consented to cooperate with the students and will come unshaven, and in patched trousers and tousled hair.

Letters were sent to the Faculty requesting their aid. Many have already fallen in with the idea enthusiastically and have assured the committee that they will not be conspicuous due to creased trousers and a well-groomed appearance, says Mr. Pattison. It is hoped that this scheme will allow the fun-making which will be rampant at the Carnival to carry through the entire day.

The Carnival Committee has decreed that a prize will be awarded for the best costume of the day and anyone arriving at the Institute that day in greasy overalls and carrying a dinner pail will be given a free ticket.

The Committee reports that it was unable to secure the services of the troupe of state police which are stationed in the Lake Waldon Barracks, as the request was considered rather unusual and as such the State Police were unable to accept. The Committee has therefore decided that as far as preserving order, the students will be under the honor system.

Activities Keep Silent

The organizations which have been allotted exhibits are working hard on their stands. They are keeping in communication with the Committee but are loathe to publish any details concerning their projects. This is due to the desire to capture the grand award of the day, a silver cup to be presented to the organization with the most attractive and original exhibit.

Admission to the Armory will be free, but the amusements will make a charge of five cents each.

The committee in charge of the affair desires that the Carnival be well attended. Since this year's affair comes as an innovation it is most important that the student body give their hearty support thereby assuring the continuance of the precedent.

Insurance Taken By Many Seniors

Half of Class Has Already Been
Interviewed in Regard to
Endowment Plan

Practically half of the Senior Class has already been interviewed for the endowment insurance and a large number of these have signified their intention of taking part in the \$75,000 endowment fund. It is expected that the number of signups this year will exceed the total for previous years if the same number of men continue to sign up daily.

In order that the drive may not necessarily be extended too long the committee wishes to urge all Seniors who have not been interviewed as yet to go to Room 3-213 as soon as possible. Mr. E. L. Goodrich and his assistants will be glad to answer any questions and clear up any misunderstandings.

Scholastic Ratings For Last Term and Standing Since 1924

Last Term

1. Sigma Chi
2. Kappa Eta Kappa
3. Sigma Nu
4. Theta Xi
5. Tau Epsilon Phi
6. Delta Kappa Epsilon
7. Phi Beta Delta
8. Lambda Chi Alpha
9. Phi Mu Delta
10. Phi Gamma Delta
11. Phi Kappa
12. Phi Beta Epsilon
13. Beta Theta Pi
14. Delta Upsilon
15. Chi Phi
16. Psi Delta
17. Alpha Tau Omega
18. Theta Chi
19. Sigma Alpha Mu
20. Delta Tau Delta
21. Sigma Alpha Epsilon
22. Kappa Sigma
23. Phi Kappa Sigma
24. Phi Lambda Alpha
25. Delta Psi
26. Tau Delta Phi
27. Theta Delta Chi

Phi Sigma Kappa was not rated as of the first term as the members of the House were quarantined during the examination period.

1924 to Date

1. Phi Beta Delta
2. Sigma Nu
3. Psi Delta
4. Phi Gamma Delta
5. Tau Epsilon Phi
6. Tau Delta Phi
7. Sigma Alpha Mu
8. Sigma Chi
9. Lambda Chi Alpha
10. Theta Chi
11. Delta Upsilon
12. Kappa Sigma
13. Kappa Eta Kappa
14. Sigma Alpha Epsilon
15. Chi Phi
16. Phi Beta Epsilon
17. Delta Kappa Epsilon
18. Phi Sigma Kappa
19. Alpha Tau Omega
20. Delta Psi
21. Beta Theta Pi
22. Theta Delta Chi
23. Phi Mu Delta
24. Phi Kappa
25. Theta Xi
26. Phi Kappa Sigma
27. Delta Tau Delta
28. Phi Lambda Alpha

A Record of
Continuous
News Service
for 48 years.



Official News
Organ of the
Undergraduates
of M. I. T.

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A NEW-OLD SPORT

WITH the addition of lacrosse to the list of existing athletics at Technology, the Advisory Committee on Athletics registers a belief in the ultimate success of the sport. This action is occasioned by the new and favorable light in which the sport has come to be regarded throughout the East. M.I.T. has joined ranks with practically all the schools in New England, New York and further South, in each of which the popularity of the old sport is increasing all the time.

The question of the establishment of lacrosse has been considered by the committee for several years, and action suspended until sufficient interest warranted further investigation. The move towards official adoption comes after a careful consideration of its advantages and disadvantages which have been determined by interviews with a number of the leaders in the sport.

Even to the uninitiated, lacrosse is well worth watching. While in football, the ball is carried to the goal, in basketball it is dribbled, and in hocked the puck is hit with sticks, in a lacrosse game, the ball is carried with an implement which looks like a snow-shoe with a handle. Originated by the North American Indians, in its adoption by colleges the game has undergone numerous developments in speed and team-play. It may even be compared to Jai-Alai, the fastest of all games, in its speed and action.

Contrary to popular opinion, candidates for this sport need have no previous experience. Due to the fact that it is played at few preparatory schools, the material from which college teams are picked must be developed almost entirely from men who have nothing more than a willingness to learn. The only way to learn the game is to play it, which is in contrast to the drudgery of fundamental learning which characterizes many sports. Interesting from the start to the players, then, and fascinating to watch with its clean, fast sportsmanship, the game offers the essence of the American ideal of play.

THE FALLACY OF COPIOUS NOTES

I suggest that thick notebooks be abolished. A stationer should be compelled to take out a license to sell them. A man asking for one should be closely questioned. Is he about to do some original work of his own? Does he want a notebook to scribble verse in or to sketch comic faces? If so, well and good. But if he wants to cram the thing with notes of the notes that his lecturer once made of some other lecturer's notes, and all in order that he may compel other unfortunates to fill their thick notebooks in turn, then, I say he must be driven out of the shop. . . . Let the student buy himself a very thin notebook, inscribe on the first page a sentence or two from Ecclesiastes, listen to his tutors, take a long look at things for himself, and then make a note or two. He may find that he wants ten reams of foolscap, having discovered a world of his own, or he may find that he wants to say nothing at all; but what he certainly will not want is a thick notebook.

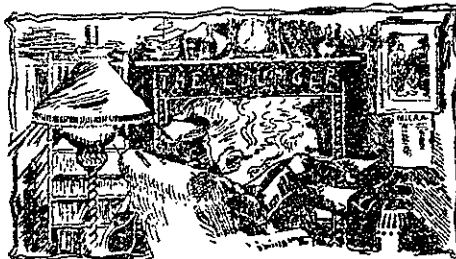
—J. B. Priestley in "Too Many People".

WHILE this sarcastic comment on the inefficacy of voluminous notes was written about Oxford, it might very well be applied to Technology. Whether they carry them in "brown-bags" or not, the student at the Institute is inevitably found with a corpulent notebook in which he copies, as fast as he can, the words of wisdom which fall from the lips of his lecturer. It is likely that these opinions the professor has gained from some other teacher; without a doubt the student should have learned from the text the same material; but still he copies feverishly and uncomprehendingly until he is so far behind in the race that he gives up. His writing efforts have so occupied his thoughts that he has not understood what he wrote, nor will he get anything from what follows.

The essential feature of good notes is to record from the professor's lecture that which can not be found elsewhere. This, of course, presupposes that the lecturer will talk on such subjects. That he may not is due probably to the student's lethargy when it comes to assimilating his text material.

Note taking is an art few acquire. It requires effort from the instructor, and thought, understanding and good judgment from the student. As is physiologically the case, notebooks are made "fat" with overindulgence; their obesity could much better be done without. Notes are necessary, but too many are a worthless waste.

THE TECH, Volume XLIX, takes pleasure in announcing the election of Joseph Valverde, Jr. '32 to the staff of the Treasury Department.



It's out folks, it's out! The Lounge hides his head in shame, for with this issue of "The Filter Paper," he has to admit that his efforts for the past years at dirt slinging have been far eclipsed. By this time there should be numberless Institute celebrities out with freshly oiled forty-fives, for some of those cracks require retribution, violent death and undying revenge.

The Lounge hastens to announce (this is official, by the way) that THE TECH has nothing to do with the smut sheet which is being distributed today. He pities those who were responsible, but the official news organ thinks too much of its unassailable reputation to publish such a thing.

FOUND: A professor with the right idea! As he was passing 10-250 in the meal-bag rush at one o'clock, he smelled an egg frying. Better eggs than dog hash, he thought, and proceeded to investigate. But, there was Eddie, still up to his old tricks—cooking an egg over calcium oxide. Holding his class over while he tempted them with the delightful odor of eggs—that's criminal.

Being hungry, Professor Mueller then proceeded to eat the food. With not a thought for the student. It's bad enough to be kept after the bell in any class, but at lunch time—well, the Lounge hopes the professors have to eat in Walker all their lives.

So Eddie Michelman didn't like the publicity we gave him the other day? Don't worry about that, my lad—just see what the "Filter Paper" did to some people!

Away from the Grind

Costume dances were in the majority this week-end. Two of this type were held, one a nautical party and the other a trip to Mars. The only formal dance also assumed an informal aspect due to the wildly imaginary decorations. A tea dance completed the week-end's social affairs.

DELTA TAU DELTA

Carlton D. Whittier '27, former General Manager of Tech Show, is visiting Boston this week-end.

KAPPA SIGMA

To those who do not believe in the Jones Act the pink elephants and double monkeys at the Kappa Sigma dance last Friday evening were, to say the least, disconcerting. The dance was a formal and held in the chapter house. Over a hundred couples danced to the music of Joe Tynes colored orchestra.

LAMBDA CHI ALPHA

A truly nautical atmosphere pervaded the Lambda Chi Alpha house last Friday evening, when a naval costume party was held. The house was decorated to resemble the interior of a ship, including anchors, ropes "Join the Navy" posters, oars, ship's lanterns and bells. A large ship's steering-wheel was backed by a port-hole, on which was a silhouetted ship. The Harvardians furnished the music, and the house was crowded to capacity. Mrs. Ralph W. Leach was the chaperon.

PHI BETA EPSILON

A tea dance was given by Phi Beta Epsilon Saturday afternoon. Twenty-

The Open Forum

Boston, Massachusetts
March 26, 1929

The Editor of THE TECH
Walker Memorial, Cambridge.

Dear Sir:

In the enclosed clipping is proposed a subject which, I believe, would bear much discussion. The last paragraph especially is important. I don't know how many useless notes I take, but I will guess that about 99% of them have no further use than to enable me to pass an examination. If this is true, it seems that there is something radically wrong in our methods of study. At least a discussion of the subject would rove fruitful.

Yours for smaller notebooks,
(signed) Earnest H. Lyons, Jr. '31

As We See the Movies

METROPOLITAN

To those who enjoyed little Davey Lee's lisping and ingenious acting in "The Singing Fool," this four year old baby star needs no introduction. For those who did not have that pleasure, the Met has a delightful evening awaiting you this week, for "Sonny Boy" is an even better vehicle for the clever youngster than that in which he made his debut.

Even hard-boiled engineers will admit they at least blew their noses during certain scenes of the "Singing Fool," but there is in "Sonny Boy" none of the tragedy of the former picture. The humor is at times but there is ample opportunity for hearty laughs as the plot becomes more complicated and the situations more ludicrous.

In the picture, Davey is the son of temporarily estranged parents. There is somewhat the conventional triangle in the parents' matrimonial entanglements, well enough camouflaged, however, not to prove boring. The comical situation comes about with the return of the lawyer on the impending divorce suit, to find in his apartment as his "wife" Davey Lee's young aunt and the boy. She has brought him there to prevent his father's taking him to Europe. Although the situation becomes trying, Davey's dual role as match-maker and reconciliator bring the story to a happy conclusion.

Ted Claire who has spent the last months in a successful engagement at the Paramount Theater in New York, has returned to Boston and is again master of ceremonies for the stage show. Entitled "Say It With Flowers," the show carries throughout a timely motif. In spite of his reputation in "What Price Glory," Sammy Cohen appeared to be "small time vaudeville" talent, and poor at that. By contrast, Stone and Vernon's acrobatic dancing act was most graceful and beautiful. The usual luxuriousness of the settings, augmented by the finished novel dancing of the Gould Girls, makes the effect of the whole show pleasing.

Fifty thousand dollars was withdrawn from the Dartmouth National Bank, by students leaving for vacation, according to a recent bank report. Ten thousand dollars of the sum went toward railroad fares on the two special trains and the remainder found its way into the coffers of metropolitan amusement centers. The amount withdrawn this year was about 20,000 dollars below that usually withdrawn. Just previous to Christmas vacation the amount usually comes to about 80,000 dollars.

He who laughs last laughs best. So found the Harvard "Lampoon" recently. According to the Harvard "Crimson," "The Lampoon" jested once too often and so it had its house and offices confiscated by the University. It seems as if the authorities did not approve of the kind of humor purveyed by the "Lampoon".

five couples were there and danced to the music of the Technotonians.

PSI DELTA

A costume dance with decorations representing a trip to Mars was given Friday evening by Psi Delta. Costumes of every description were worn even including a few which purported to be the daily apparel of inhabitants of our neighbor planet. About 175 couples were present. Music was furnished by Dave Izen's Green Gable orchestra. Although the dance was scheduled to end at two popular demand kept the music and the merriment going until three o'clock.

SIGMA NU

George C. Houston '27, former General Manager of THE TECH; Edward D. True, '27 former General Manager of T. E. N.; and Lloyd F. McAdam '27 are staying at the chapter house during a week-end visit to Boston. They are all now working in the vicinity of New York.

HAVE YOU CHOSEN YOUR LIFE WORK

In the field of health service?

The Harvard University Dental School—the oldest dental school connected with any university in the United States—offers thorough well-balanced courses in all branches of dentistry. All modern equipment for practical work under supervision of men high in the profession.

Write for details and admission requirements to Leroy M. S. Miner, Dean

Harvard University Dental School
Longwood Ave., Boston, Mass.

April Review To Be Sold Today In Main Lobby

"Cameras With Ears" by Joseph Ball is Featured Article for This Issue

In the April "Technology Review," which goes on sale today in the Main Lobby, the featured article concerns the development of movietone productions. Joseph A. Ball '15, tells the history of this latest scientific art. Numerous pictures illustrate an interesting story of the methods that are being used and the obstacles that are being encountered. Ball stresses the fact that this newest art depends, as no other, on the researches of science.

In another article, Alfred P. Sloan, Jr. '95, president of the General Motors Corporation, tells of the status of the automobile industry in the United States, and the great benefits that are to be derived in general from the business statistics of the larger corporations that are operating in the country today. Mr. Sloan has recently been in the limelight because of his recent negotiations with the Adam Opel Co. of Germany.

"Science and World Affairs" is the title of an article by John Bakeless, editor of the "Living Age." He says that the development of scientific methods has been tardy in political negotiation, and speaks of the horrible possibilities of the next war. News of the Institute, book reviews, and Alumni news complete the issue, the latter including news from the various clubs in the country. The cover design is a sketch of a medieval town wall, with the roofs of quaint old buildings above it.

Play Directory

Tickets for all theatres may be bought at Box-Office Prices from the T.C.A., Walker Memorial.

Stage

COLONIAL: "Billie."
Miss Polly Walker in a charming musical fete from the versatile pen of George M. Cohan, whose popularity is undiminished at the end of the twelfth week.

WILBUR: "The Trial of Mary Dugan."
Live, realistic and saturated with breath-taking action. In its eleventh week.

COPELEY: "The Ringer."
A real achievement by Edgar Wallace, the internationally known English mystery play author.

MAJESTIC: "The Skull."
The third week of a ghostly thriller.

ST. JAMES: "It's a Boy."
Tale of a young couple who go to New York with their souls full of hope and return sadly disillusioned.

TREMONT: "The Silver Swan."
The French composer Jaquet in a new operetta portrays in the characteristic Viennese manner the low-down on the internal affairs of an opera company.

APOLLO: "Luckee Girl."
A Schubert musical comedy, on a Parisian model; the score by the composer of "Mon Homme", Maurice Yvain.

HOLLIS: "All the King's Men."
The plot of this partly serious and comical piece revolves about the tribulations of a young widower and his second wife. She tries to keep his affections in the singular number.

Screen

METROPOLITAN: "Sonny Boy."
Reviewed in this issue.

LOEW'S STATE: "Broadway Melody."
Anita Page and Charles King in a combination of musical comedy and backstage melodrama. A good "talkie" enhanced by some color photography.

MODERN and BEACON: "Hearts in Dixie."
A simple and poignantly beautiful story of life in the South, with an all negro cast. Some very funny situations and very fine singing.

OLYMPIA and FENWAY: "Close Harmony."
An exceptionally good "talkie". Nancy Carroll and Charles Rogers starring as a "Premiere Danseuse" and a jazz-band leader respectively.

Boit, Dalton & Church

40 Kilby Street

Boston

INSURANCE OF ALL KINDS

SWIMMERS BREAK 12 RECORDS

Tank Men Win Six of Nine Dual Meets, Leaving One Old M.I.T. Mark Unbroken

1929 TEAM RATES AS BEST AT M. I. T. IN SEVERAL YEARS

Brown, West Point, W.P.I. Are Only Teams to Defeat Engineer Team

SECOND IN NEW ENGLANDS

Having completed the season with a list of very creditable victories, the 1929 swimming team may be rightly called the best that the Institute has had in that sport for ten years. One of the features of the season was the breaking of twelve Technology records, a feat which includes every event except the fifty yard free style. This year the team has shown a tremendous improvement over those of the previous seasons and had proved itself to be among the best outfits in New England, as is evidenced by the fact the team placed second in the New England championships. Another notable feature is the fact that the Institute time in the three hundred yard medley, which is held by Ed Mackay, is lower than the existing New England time for that event.

Long List of Victories
The team opened the season by ducking Amherst in a close meet at the Amherst tank. Rensselaer Polytech and Columbia were the next teams to suffer defeat at the hands of the Engineer mermen, and both teams were defeated by decisive scores. The day following the Columbia meet the team journeyed to West Point, and there they suffered their first defeat when the cadets captured the relay to secure a majority of points.

Second in New England
The Boston University Terriers were the next on the schedule and the Engineers swamped them completely, taking every first and all but one second. Technology suffered the second defeat of the season when they lost to Worcester Polytech, but this defeat was avenged in the New England meet when M.I.T. out-scored the Worcester team twenty-three to three. Bowdoin and Wesleyan also became Technology victims with a little difficulty, though the Brown Bears proved to be too much for the Cardinal and Gray, who lost after a very stiff meet which taxed Brown to the limit of its powers.

Technology's showing in the New England Championship meet was highly commendable as compared with that of other seasons. Although the Institute did not succeed in taking any firsts they taxed their opponents to the limit and captured all the second and third places.

Record-breakers in Lineup
Nearly every man on the team has broken at least one record during the course of the season. In the 200-yard breast stroke Birnbaum has been a consistent winner. At Brown he broke the M.I.T. record in this event, and placed second in the New England, in a race in which the New England time was lowered. Luey has been another steady winner in the 150 yard back stroke. He broke the tank record in this race at Bowdoin, and followed that with a new New England mark in the Wesleyan meet. At the New England

M. I. T. A. A. Events for April	
Saturday, April 6	RIFLE TEAM
N. R. A. Intercollegiates at New York	
Saturday, April 20	CREW
Varsity and Junior Varsity vs. Navy on the Severn	
Wednesday, April 24	TENNIS
Freshmen vs. Exeter at Exeter	
Friday, April 26	TENNIS
Varsity vs. Amherst at Amherst	
Saturday, April 27	TENNIS
Varsity vs. Williams at Williamstown	
Freshmen vs. Harvard at Cambridge	
CREW	
5:00 P.M.—Varsity vs. Princeton on the Charles.	
4:30 P.M.—Junior Varsity vs. Princeton on the Charles.	
8:00 P.M.—Exhibition in Walker Gym by the A. A. for Open House.	
TRACK	
Freshmen vs. Andover at Andover	
Tuesday, April 30	GOLF
2:30 P.M.—Varsity vs. Worcester Polytech at Woodland Golf Club.	

Sports Desk

Charles Denny, manager of the 1927 cross country team, had the hard luck to dislocate his elbow while practicing on the hurdles last Friday. After being treated at the Infirmary he was allowed to go home.

At Ann Arbor, a week ago last Saturday the Michigan Track team triumphed over Cornell in an indoor meet. Michigan was strongest in the track events while Cornell had the edge on the field. This should give some indication as to where to expect the strength when Cornell meets the Technology team.

Tennis balls seemed to be the topic of conversation after the recent meeting of the tennis team. One man claimed to have 100 of them that he would be willing to sell "dirt cheap."

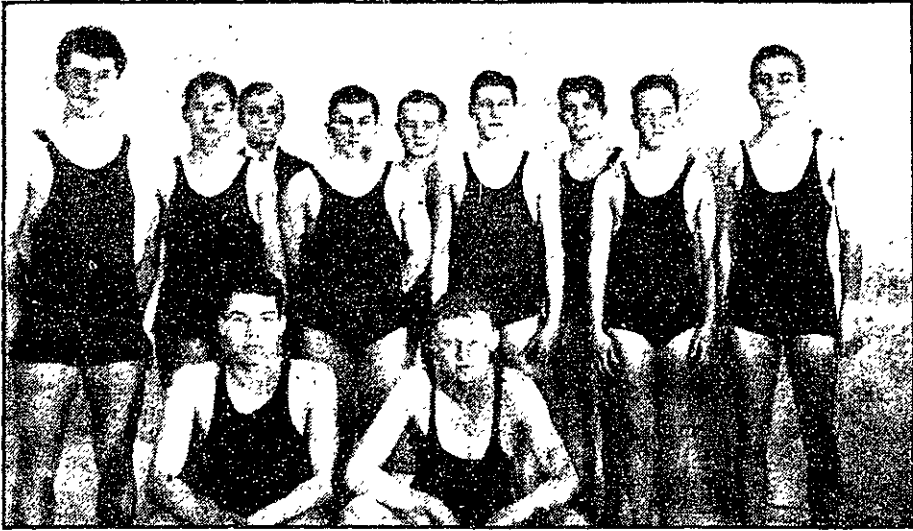
championship meet, this time was bettered by Arnold of Brown in a race in which Luey placed third.

Mackay Breaks Medley Record
The New England record in the medley swim was lowered by Ed Mackay in the Brown meet. Others who have been winners during the past season are Lutz, Jarosh, Appleton, Torchio, Baker, and Lykes.

The results of the dual meets are as follows:

M.I.T.	43	Amherst	36
M.I.T.	43	Rensselaer Polytech	28
M.I.T.	39	Columbia	23
M.I.T.	29	West Point	33
M.I.T.	53	Boston University	9
M.I.T.	27	Worcester Polytech	53
M.I.T.	51	Bowdoin	20
M.I.T.	34	Brown	46
M.I.T.	43	Wesleyan	37
M.I.T.	362	Opponents	285

Varsity Swimming Team Which Has Just Completed Successful 1929 Schedule



Seated: Birnbaum, Captain Luey
Front Row: Mackay, Lykes, Jarosh, Lutz, Appleton, Torchio
Back Row: Manager Spruill, McMinn, Baker

LADDER PLAY FOR TENNIS TEAM WILL START ON MONDAY

Manager White, Captain Cleary, and Wigglesworth Talk to Candidates

SCHEDULES ARE RELEASED

About forty men attended the tennis mass meeting which was held last Friday afternoon, although the attendance among the freshmen was cut considerably, due to the fact that most of them were at drill. The meeting, conducted by manager White, was addressed by Captain Cleary and Thomas Wigglesworth.

Captain Cleary outlined the coming season to the candidates and gave them some information as to where and when the practices would be held. He told of the coming ladder tournaments for both the Varsity and freshman teams. At the suggestion of Wigglesworth it was decided to postpone the start of the tournaments from today until next Monday in order that the men might get a little practice before entering competition.

Wigglesworth Speaks
Wigglesworth was the next speaker and he told the men of the N. E. I. L. T. A. cup that is given yearly to the winning college. He outlined the rules under which the cup is given and then went on to say that Williams had won the cup last year. He stressed the point that it was necessary for the men to get their strokes while practicing with other members of the team and the whole idea should not be to win these matches. That would be left to do when opponents from other colleges in real competition were to be met.

Freshman Meeting Considered
As the freshmen were unable to attend due to the conflict of the meeting with their classes, Manager White is considering the advisability of holding another meeting for them. Freshman competition is the foundation for the Varsity team, and White is doing all he can to encourage the freshmen to come out. The following schedule, was announced for the Varsity and freshmen at the meeting.

VARSITY	
Apr. 26—Amherst at Amherst.	
Apr. 27—Williams at Williamstown.	
May 1—Wesleyan at Middletown.	
2—Boston University at B. U.	
6—Tufts at Tufts.	
8—Harvard at Harvard.	
10—Bowdoin at M. I. T. (Oakley Country Club)	
15—West Point at West Point.	
FRESHMAN	
Apr. 24—Exeter at Exeter.	
27—Harvard '32 at Harvard.	
May 1—Tufts '32 at Tufts.	
4—Worcester at Worcester.	
8—B. U. '32 at B. U.	
11—Andover at Andover.	
14—Brown '32 at Providence.	
16—St. Paul's at Concord.	

Work will start on the reconditioning of the cinder track this afternoon and it is hoped that it will proceed swiftly enough to enable the handicap meet to be held on it next Saturday.

Crews Have Fast Time Trials On River Saturday

Many Shifts Are Made in Boats as Coach Haines Plans for Navy Meet

After a week of hard practice the Technology crews went out on the Charles Saturday for time trials in preparation for the first race with Navy in three weeks. The Jay Vees did the unexpected and won from the first Varsity boat in a trial spin by a generous margin. The Jay Vees, stroked by Ralph Zurwells, rowed in fine form over the course which extended from Cottage Farm Bridge to Harvard Bridge. Both crews used Davy shells, the first Varsity having the new one which was recently purchased.

Jay Vees Win Again
Coach Haines shifted the crews about when they returned from the trial race, giving the Varsity the shell that the 150-pound Varsity had been using in their workouts. He then sent the two boats back to the starting line for a second trial race over the same course. From the start the Junior boat took the lead, and increased it rapidly until there were two lengths of open water at the half-way mark. Coach Haines stopped the race at this point and called the crews in for another change.

Line-Ups Are Shifted
The Varsity then resumed possession of the new Davy shell but the personnel of the two crews was altered. Captain Tittman, Bennett, Holt, and Otis were placed in the Junior boat, while their places in the first shell were filled by Bourne, Dolben, Jack Bennett, and Zurwelle from the Jay Vees.

The lineup was again changed after a short spin, when Coach Haines placed Captain Tittman back in the first boat at number six, and returned Dolben to the Jay Vees. With this as the final lineup the crews went up the river for a final short workout to close the day's work. This was with no exception the hardest day of the season thus far, and much benefit was gained by way of experience for the men and information for the coaching staff.

Same Crews Will Row Today
It is announced that the crews as finally organized would row in practice today, though the Jay Vees will have the privilege of using the new shell. The other crews, including the light Varsity and the freshmen had similar workout on the Basin. Saturday afternoon and a marked improvement (Continued on Page 4)

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SOCCER TEAM HAS FIRST SCHEDULED GAME ON APRIL 6

Material is Needed to Strengthen Backfield Positions Now Left Unfilled

FORWARD LINE IS STRONG

Spring practice for the Soccer team has suffered a great deal from the rainy weather that was prevalent in the last few days. The Coop field was soggy and soft, and therefore was not in proper condition for workouts. In spite of this, however, a few men braved the elements and reported for practice just the same. Coach Welch has not had an opportunity to hold a scrimmage yet, but expects to have one or two this week provided enough men come out. With the first game coming on April 6, the team has to work hard to get into form. Candidates for positions on the team should report on the Coop field for every practice.

Backfield Is Weakened
This spring the backfield will not be as strong as has been expected. Ed Hawkins, the Engineers' right fullback for two seasons, is at present occupied with his duties as crew manager, and cannot come out. Wyman, veteran goalie, and Riehl, left fullback, have not reported for practice, both being now burdened with activity work. The two men have, however, indicated their desire to come out as soon as their work will permit them, and will be a great help to the team later on in the season. Riehl will probably be teamed up with Gaston from last year's freshman team. Gaston looks promising.

Danziger and Cooper Return
Halfback positions are somewhat weakened by the loss of ex-Captain Fahey and Kim. Danziger, who showed up fairly well last fall, has been working hard and hopes to gain a place on the team. Cooper of last year's Varsity is also expected to play.

The offence is in a different position. Among the letter men to come out are Kashemsanta, last year's high scorer, Youngson, and Vibul. These men will be strengthened by Velez, Axford, and Schulze, all from the freshman team. From these prospective forwards Coach Welch will have an easy job to get the right combination which will be a threat to opposing teams.

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NOTICES and ANNOUNCEMENTS Of General Interest

Theory of Metallic Conduction Prof. W. Heisenberg Monday, April 1, 4 P.M., Room 4-231

Professor W. Heisenberg, Director of the Institute of Theoretical Physics of the University of Leipzig will give the eighth lecture in the series on "Recent Developments in Quantum Mechanics." The subject of the lecture will be "Ferromagnetism."

The lecture is open to students and members of the instructing staff.

Hydraulic Experimentation Dr. Ing. Theodor Rehbock Tuesday, April 2, 2 P.M., Room 5-330

Dr. Ing. Theodor Rehbock, Professor of Hydraulics at the Technische Hochschule of Karlsruhe, Germany, will give the sixth lecture in the series on "Hydraulic Experimentation." The subject of the lecture will be "Protection of Tumble Bays" and Layout of River Hydraulic Laboratories." The lecture will be illustrated by moving and still pictures.

The lecture is open to students and members of the instructing staff.

Unusual Uses of Chlorine Mr. Robert Spurr Weston Lecture postponed until Tuesday, April 2, 10 A.M., Room 10-419

Mr. Robert Spurr Weston, Consulting Sanitary Engineer, will speak to the class in Municipal Sanitation on the subject "Unusual Uses of Chlorine." The lecture is open to students and members of the instructing staff.

Ancient Life in Central Asia Prof. F. K. Morris Wednesday, April 3, 7:15 P.M., Emma Rogers Room

Professor F. K. Morris of the Geology Department will speak at a meeting of the Sedgwick Biological Society. The subject of his lecture will be "Ancient Life in Central Asia." All who are interested are invited.

Calendar

- Monday, April 1**
5:00—M. I. T. A. A. Meeting, Committee Room, Walker.
- Tuesday, April 2**
5:00—Banjo Club Meeting, East Lounge, Walker.
5:00—Glee Club Meeting, Room 10-250.
- Wednesday, April 3**
7:30—Chemical Society Smoker, North Hall, Walker.
7:30—Math Club Meeting, Faculty Dining Room, Walker.
7:30—Aeronautical Engineering Society Smoker, Room 5-330.
- Thursday, April 4**
5:00—Banjo Club Meeting, East Lounge, Walker.
5:00—Glee Club Meeting, Room 10-250.
- Friday, April 5**
8:30—M.I.T. Catholic Club Formal Reception and Dance, Kenmore Hotel.
8:30—Dorm Dance, Walker.
8:30—Scabbard and Blade Dance, Rogers Building.
9:00—Freshman Promenade, Hotel Somerset.
- Saturday, April 6**
National Rifle Association Intercollegiate at New York.
- Monday, April 8**
5:00—M. I. T. A. A. Meeting, Committee Room, Walker.
- Tuesday, April 9**
6:00—T. E. N. Dinner, North Hall, Walker.
- Friday, April 12**
All Technology Carnival, Armory.
- Saturday, April 13**
3:30—Activities Tea Dance, Faculty Dining Room at North Hall, Walker.

Undergraduate

SENIOR ENDOWMENT
Information on the Senior Endowment plan can be secured in Room 3-213 at any time.

SOCCER CANDIDATES
A soccer scrimmage will be held at

2:30 o'clock tomorrow in the drill field for all team candidates. All members of last year's Varsity and freshman teams are requested to come out for practice.

CREWS ORGANIZE FOR NAVY MEET APRIL 20

Will Practice Today With Crews
Picked Last Saturday

(Continued from Page 3)

was shown in every case over their work in the past practice sessions.

The Navy meet is scheduled to take place on the Severn on the afternoon of April 20. This will give the men little over two weeks of real practice in which to prepare for this first test of their strength. Last year the Navy defeated the Varsity crew from Technology by a scant quarter of a length after a hard battle.

Coach Manning Returns

The freshmen oarsmen rejoiced last week upon the return of their coach, Pat Manning, who has recovered from his recent illness sufficiently to be able to resume his duties. He was present at the boathouse last Wednesday, though he did not go out on the river because of the sharp wind which swept the barge.

The lineup of the Technology boats at present are:

Varsity: Bow, Landen; 2, Evans; 3, McLeod; 4, Richardson; 5, Bourne; 6, Tittman; 7, Bennett; 8, Zurwelle; cox, Karas.

Junior Varsity: Bow, Wells; 2, Rucker; 3, Kohler; 4, Byrne; 5, Bennett; 6, Dolben; 7, Holt; stroke, Otis; cox, Booth.

150-pound Varsity: Bow, Weaver; 2, W. McKusick; 3, Walker; 4, Gibbons; 5, Latham; 6, Harris; 7, B. McKusick; stroke, Nason; cox, Whitaker.

Freshman: Bow, Dunning; 2, Varey; 3, Chase; 4, Kloeane; 5, Thompson; 6, Riley; 7, Cimorelli; stroke, Schulenburg; cox, Loustaneau.

Faculty Club To Hear Address By German Educators

Heisenberg and Rehbock Will
Discuss German Methods
of Education

"Technical Education in Germany" will be the subject of a discussion given before the next luncheon meeting of the Faculty Club, to be held tomorrow noon in the Faculty Dining Room at Walker.

The speakers are to be Professor Werner Heisenberg, Director of the Institute of Theoretical Physics of the University of Leipzig, and Dr. Ing. Theodor Rehbock, Professor of Hydraulics at the Technische Hochschule of Karlsruhe, Germany, both of whom are at present engaged in giving a series of lectures at the Institute.

Professor Heisenberg is one of the leading physicists of the world today, and is the originator of the theory of Quantum Mechanics, which forms the subject of the lecture series which he is giving. Dr. Rehbock is widely known in the field of hydraulic experimentation, and his present visit to the Institute is for the purpose of lecturing on this subject.

Interest in this talk is very great, as it comes as a climax to the discussion on American and foreign methods of education recently held through the columns of THE TECH. The Faculty Club believes that the views on this subject of men representative of the instructing staffs of the German Universities should throw much light on this controversial subject.

Australians Visit The Institute In Touring America

Members of R. O. T. C. Battalion
Conduct Group Through
the Buildings

One hundred and fifty-nine boys from Australia visited the Institute Thursday afternoon. They were conducted through the various buildings by Mr. William Jackson of the Information Office, and members of the freshman R. O. T. C. Battalion. The laboratories, the Aeronautical Building, and Walker Memorial were seen by the visitors.

The boys are making this trip under the direction of the Young Australia League which conducts trips to foreign countries for the youths of Australia with the idea of broadening their education. This group has a band with them which they use in parades and also a donkey mascot.

San Francisco was the first city in the United States the boys visited, landing there January 19. After a visit to Los Angeles, they proceeded East through Arizona and New Mexico to Texas, and from there to New Orleans. From a special stand on Pennsylvania Avenue the boys saw President Hoover inaugurated. Later he received them in the White House. This was the first duty he did in the capacity of President. Baltimore, Philadelphia, and New York were visited and then the group came to Boston.

At all the cities the boys went through the big universities, colleges, and industrial plants, besides visiting all points of historic interest. As this is the first purely scientific school that has been inspected, the boys couldn't compare it with anything they had seen, but they were all impressed with the big laboratories and were naturally especially interested in the engines in the steam and hydraulic building. After leaving the Institute the party went to the Hotel Statler for dinner.

From Boston the trip takes them to Canada. From there they will cross back into the United States to see Chicago and Detroit. The tour will be completed in June when the boys sail from Vancouver for their home.

Rogers Notes

In a recent census taken at Rogers of the regard for freshman rules exhibited by the first year design students a fertile field for the enforcement of the regulations was opened up to the Freshman Rules Committee. Thirty-three architects and architectesses were carefully surveyed for evidences of lurking loyalty to freshman traditions. The task was one requiring great patience because the evidence was very obscure, in fact almost nil, and the census taker had to employ all possible tact to disguise his real intentions, for the freshmen were hard at work on design problem coming due all too soon for most of them, and the atmosphere was ominous with the odious hot air which burst from the lips of the foaming architects every minute or so.

But the information was finally gathered together, and upon tabulating it the results indicated that four of the thirty-three were not freshmen, and that four of the others weren't men at all. Out of the remaining twenty-five, four were wearing no ties as far as could be observed and the remainder of the eligibles was divided between fourteen who were sporting ties other than the required Cardinal and Gray and an inconspicuous seven who had upheld the tie regulation.

Thus twenty-eight percent is the rating of Rogers freshmen on freshman rules, and from previous informal observation the writer believes this to be an abnormally high rating secured on a rainy day when some of the freshmen wore their regulation ties in order to avoid getting another tie wet and dirty. Here, truly, is a field of enterprise for the Rules Committee.



Ready for the
CARNIVAL—April 12

Contributions to Textile Industry Being Made by Institute Laboratory

Testing Equipment and Methods
for Comparing Fabrics
Being Developed

(Continued from Page 1)

and Mr. Edward R. Schwartz is his assistant.

Need for Accurate Testing

For many years the testing of textiles consisted largely of personal estimates based upon mere inspection. Naturally such tests being both crude in method and variable in results caused many disputes and misunderstandings. Manufacturers, jobbers, and consumers were engaged in continue wrangling over the acceptability of superiority of the various fabrics they handled.

With large scale production and increased buying on specification it became evident that machines and methods must be perfected depending not upon the personal opinion or accuracy of the observer but upon accurate data obtained by testing machines.

Laboratory Develops Equipment

As soon as textiles began to be tested for tensile strength it became evident that the amount of moisture in the specimen greatly affected the apparent strength. The attempted use of a "bone dry" condition as a standard was soon discarded because of its instability.

The laboratory next sought some "standard atmosphere" which could be kept under control and thus give testing results a true relative significance. This problem has been actively worked on for the last ten years and the present equipment is the development of this research.

Automatically controlled spray heads and thermostats maintain a constant temperature of 70 degrees Fahrenheit and a relative humidity of 65 percent, the "standard atmosphere" adopted by the Bureau of Standards. This condition is maintained with a great degree of accuracy both in the Testing Laboratory and in the larger quarters of the general laboratory.

The routine tests which the laboratory is now equipped to make are:

Tensile strength and stretch, threads per inch in warp and filling, weight and yardage, wearing qualities, thickness, and other physical properties such as absorption.

Investigations Now Pending

A number of problems of a very interesting nature and possibly of a very valuable character are at present being worked on this laboratory. One of these is a study of the effect of varying twist in the cords used in manufacturing automobile tires.

A machine is in the process of construction for testing the resilience of mattress material. Although the government has set up specifications for manufacturers to meet in making this product, there is nowhere in the country a satisfactory machine which will give adequate and dependable results in measuring this quality. Many mattress manufacturers throughout the country have requested to have their products rated by this new machine.

Tests are now being made on various fabrics to determine their adaptability for use as diaphragms in the new gasoline pumps which are replacing the vacuum feed system on many of the new model automobiles.

Research on Future Needs

A very important part of the work of this laboratory has always been in the field of research which lies beyond the present demands of the textile manufacturer. Textile microscopy has been a branch of this research for several years. The work is largely concerned with the development of instruments and technique for the specialized problems of textiles. New uses for microscopic equipment in the industry are constantly being developed.

The development of nomographic charts has been made by this laboratory in recent years in an endeavor to simplify textile calculations. Many complicated graphs and equations have been reduced to forms which can be easily used by the textile manufacturer. Publication of a number of these charts has been made in the "Textile World" in the past year. Their adoption by a number of manufacturers has proved them very practical.

Debate American Foreign Policy

Speakers Will be P. V. Keyser '29
and T. W. Mackesey '31 of
Debating Team

American armed intervention in such foreign countries as Nicaragua, will be the subject of a debate that will be held by Professor James L. Tryon's course in International Law and American Foreign Policy in Room 5-330, tomorrow at 1 o'clock. All students are invited to attend.

Two members of the debating team will give fifteen minute speeches which will be followed by an open forum. The question is identical with the one on which the debating team won seven consecutive victories last year. Thomas W. Mackesey '31, will uphold the affirmative and Paul V. Keyser '29, the negative.

Previous to the debate, one of the members of the General Study will draw a map of Nicaragua showing the prospective canal which is at present being resurveyed. The map will be used by the speakers to illustrate some of their points. The time which remains after the debate will be devoted to an open forum during which time the audience may ask questions of either speaker.

Due to the fact that the usual attendance of the General Study will be taken, Professor Tryon requests that any students who are not in the regular course take seats in back of row H.

INTERCOLLEGIATE

In the Educational Directory, published by the Bureau of Education a number of interesting facts concerning American colleges and universities were cited. Columbia is recognized as the largest university in the country, with 35,000 students and 1,500 instructors. Buena Vista College is the smallest with 21 students and 16 faculty members. Harvard is the oldest university having been founded in 1636. William and Mary College and Yale rank second and third in this respect having been established in 1693 and 1701, respectively.

Students at the University of Kentucky have taken the enforcement of the Volstead Act at their university into their own hands. Any student caught drinking at a dance, social, or any other affair dealing with campus life, is brought before the Men's Student Council and tried. If found guilty the offender may be

shipped. The movement on the part of the students has just about put an end to all drinking at the University of Kentucky.

The mayor of Chapel Hill, N. C., was opposed to University of North Carolina boys standing in his streets and asking for rides from passing motorists. He passed a law stating that the boys would have to stand on the curb and holler for their rides. The first day this law was in effect about fifteen boys disregarded the law and bummed rides while standing in the streets. The boys were fined three smackers apiece.

Unless traffic rules are obeyed to a greater extent at Coe College, students will be deprived of the privilege of driving cars. The chief of police complains that the town's red lanterns are disappearing too fast.

Where do graduation rings go? To the "hock shop." So says Tar Barrel of the "Varsity Breeze," St. Louis University. He reports that 95% of the rings of '16 are in "Uncle Ben's". We don't think that engineers could hold out that long.

Mrs. Chauncey Depew has given \$120,000 to George Washington University for the establishment of a public speaking course, with special instruction for future congressmen.

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